



**National Aeronautics and  
Space Administration**

**June 1, 1999**

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**RFI-99-OES-01**

**Request for Information**

**Concerning**

**Earth Science Research Using ADEOS-II  
Data**

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**Responses due July 31, 1999**

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## 1. Statement of the Opportunity

The National Space Development Agency of Japan (NASDA) is planning to launch its second Advanced Earth Observation Satellite (ADEOS-II) in November of 2000. NASDA has released a coordinated Joint Research Announcement (JRA) on the Internet at the following address:

<http://adeos2.eorc.nasda.go.jp/JRA/JRAindex.html>

NASDA's statement of the range of opportunities available to researchers in the several agencies includes:

1. Development of research algorithms
2. Preparation and implementation of calibration/validation plans
3. Research on the Earth and environmental sciences.

ADEOS-II is a comprehensive satellite observatory with sensors provided by several countries and agencies as follows:

GLI and AMSR from NASDA  
ILAS-II from Japan's Environmental Agency  
POLDER from CNES  
SeaWinds from NASA

U.S. participants, both within NASA and in the university community, have participated in developing standard and research algorithms, and in some calibration/validation activities. This RFI is intended to stress the use and interpretation of ADEOS-II data and related contemporaneous Earth science data. It thus pertains primarily to the third category of NASDA opportunities listed above, i.e. Research on the Earth and environmental sciences.

There is a wide range of potential science which can be conducted using data from the sensors that will be carried aboard ADEOS-II. It covers a full spectrum of ocean, land, and atmospheric studies which encompass global environmental variability studies; physical, chemical, and dynamic process studies; utility of satellite remote sensing for detecting change and/or forecasting future variations; and monitoring the earth's behavior so that future changes can be modeled.

Access to data from ADEOS-II is based upon being designated as an approved investigator. The purpose of this RFI is to identify and endorse all currently-funded researchers planning to use ADEOS-II data and to explore the possibility of NASA-provided support for research through an NRA that could be released in the near future.

## **2. Requirements for Eligibility**

This RFI pertains to researchers currently funded by NASA and who are intending to use ADEOS-II data. NASA plans to identify, approve, and subsequently endorse investigators with current funding to become authorized users of ADEOS-II data. Examples of such researchers include members of science teams for NSCAT, SeaWinds, MODIS, GLI, SeaWifs, AMSR, SAGE, and TRMM. Other examples include scientists who cooperated with NASDA during the development phase of ADEOS-II by providing algorithms and/or calibration/validation expertise, as well as other researchers requesting that some of their current funding be redirected to research on ADEOS-II.

NASA plans to provide NASDA with one or more lists of endorsed investigators. The first will consist of those investigations with plans to use ADEOS-II data and who have current funding to conduct the research. That list will be provided to NASDA in mid-September, 1999. The second list of additional endorsed investigators may be provided to NASDA around March of 2000, after NASA's FY2000 has begun and new funds may become available for a potential ADEOS-related NRA. Without providing the initial list of currently-funded investigators, it would not be possible to meet NASDA's schedule of announcing selections in Sept., 1999. NASA may provide a second list of approved and funded researchers to NASDA for its consideration of additional requirements for ADEOS-II data and information concerning the additional types of research being undertaken.

## **3. Submission Requirements**

We request that potential investigators interested in ADEOS-II data :

1. Complete and return the ADEOS-II JRA Letter of Intent provided on the Internet at:

<http://adeos2.eorc.nasda.go.jp/JRA/test.html>

2. Provide NASA with a response to this Request for Information (RFI) consisting of a 5-7 page description of the type of research planned for ADEOS-II data, expected research accomplishments, the amounts and geographical and time coverage of ADEOS-II data required for the research, past ADEOS Program or associated sensor involvement (if applicable) including a copy of the acceptance letter, a statement of current funding availability, an indication of approval to use this funding for ADEOS-II research, and the proposal cover sheet provided by NASDA on the Internet at:

<http://adeos2.eorc.nasda.go.jp/JRA/PDF/CSwin1.txt>

3. Provide NASDA and/or other appropriate agencies participating in the JRA a copy of the Proposal Cover Sheet form, especially if other data than the NASA-supplied SeaWinds data are being requested from ADEOS-II. For instance, if a project is envisioned that would require SeaWinds, AMSR, GLI, and POLDER data, then copies of the Proposal Cover Sheet should be sent to NASA, NASDA, and CNES. This process would serve to inform the other agencies of your intended requests for ADEOS-II data. NASA's subsequent validation of the approved investigators will be sent to NASDA for notification of all the participating agencies.

Data from the individual instruments will be handled by the sensor providers, i.e. GLI and AMSR data from NASDA, ILAS-II data from Japan's Environmental Agency (EA), POLDER data from CNES, and SeaWinds data from NASA. NASA-supported investigators wishing to use data from any of these sensors must respond to the NASDA JRA as well as to this RFI, for endorsement of their proposed research and confirmation of their current funding support.

## **4. Evaluation Process**

NASA will receive the responses to the RFI and evaluate them internally to ensure that:

1. The proposing researcher has a clear plan/process for acquiring and using ADEOS-II satellite data.
2. The proposed use of ADEOS-II data is consistent with approved research.
3. The funding source and amount identified is adequate to support the proposed research, and the appropriate official authorization is obtained for using this funding for the analysis of ADEOS-II data.
4. The proposer plans to publish the results of his/her research and to share the results with NASDA and other relevant agencies.

## **5. Notification Process**

NASA will notify individuals concerning the receipt of their response material, the status of their endorsement request, and the final relationship to the ADEOS-II Program, as determined by NASDA.

## **6. Deadlines**

JRA Electronic Letter-of-Intent - As soon as possible

RFI Responses Due to NASA –July 31, 1999

Responses to this RFI can be submitted by e-mail to:

**[oesresponse@hq.nasa.gov](mailto:oesresponse@hq.nasa.gov)**

or by mail to:

ADEOS-II Request for Information  
Code Y  
400 Virginia Avenue SW, Suite 700  
Washington, DC 20024

NASA informs NASDA of approved ADEOS-II researchers/projects and potential research and data requirements from FY2000 Research Announcement – Sept. 15, 1999

Notification to researchers of endorsement status - Sept. 15, 1999

Announcement by NASDA of initial selections - End of September, 1999

NASA Research Announcement for Earth Science Research, including ADEOS-II Data – October, 1999 (tentative)

Announcement of NASA Research Announcement winners and notification of NASDA – Spring, 2000 (tentative)

## **7. Responsible Individuals**

The person at NASA Headquarters responsible for ADEOS-II coordination is:

Dr. James C. Dodge  
ADEOS-II Program Scientist  
NASA Headquarters  
300 E Street, SW  
Washington, DC 20546  
Tel. (202)358-0763  
FAX (202)358-2770  
E-mail: [jdodge@hq.nasa.gov](mailto:jdodge@hq.nasa.gov)

Individual responsible for eligibility determination:

Dr. Jack Kaye  
Director, Research Division  
Office of Earth Science  
NASA Headquarters

Individual responsible for NASA Earth Science:

Dr. Ghassem Asrar  
Associate Administrator  
Office of Earth Science  
NASA Headquarters  
Washington, DC